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NPIC/TSSG/RED-1851-69
3 October 1969

MEMORANDUM FOR: Chief, Technical Services & Support Group

ATTENTION : [] PPS/TSSG

SUBJECT : RED Monthly Report on Significant Events (September 1969)

A. Significant Items of Interest for September 1969.

1. [] Screen - The [] sub-contract to [] for the subjective testing of scattering-type screens was completed on 1 September 1969. [] is now evaluating the report and will advise NPIC relative to their findings.

2. High Precision Stereo Comparator - This program is 72% complete, and the optical testing and assembling is making good progress at [] states that they still expect to have the optical system ready for acceptance tests by [] in mid-December 1969. The project officer visited the [] plant from 9-10 September 1969. [] TSSG/ESD, had on-the-job maintenance training at [] from 8-11 September 1969. Nine members of EXRAND visited [] on 15 September to inspect the comparator.

3. Dry Silver Program - IEG, PSG, IAS, and TSSG/APSD personnel have been briefed on the planned Dry Silver Program, and inputs from these groups have been incorporated into the over-all, modified plan.

A visit to the [] facilities, with []
and [] of Westover SPPF, established 15
October as the date for final factory testing of the High
Capacity Processors and 1 December as the date for the anticipated start of T&E at the Westover facilities. A production
schedule for film in support of this equipment has been
established.

In addition, []
of PSG visited the [] facilities for briefings on Dry Silver
materials and equipment along with [] graphics
capabilities.

GROUP 1
Excluded from automatic
downgrading and
declassification

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4. Automatic Target Recognition Device - The Automatic Target Recognition Device (Cloud Screener), being built by [redacted] is being fabricated utilizing the optical defraction technique vice the electronic sampling technique. This decision was based upon the recommendation of Center-wide evaluation group. 25X1
5. Search & Scan PI Station - The Executive Director/NPIC approved the recommendation that was made by the NPIC Evaluation Team to configure the Search and Scan PI Station [redacted]. The contractor has begun his effort to complete the design toward this goal. 25X1
- 25X1
6. Visit of [redacted] Officials - On 5 September NPIC was visited by [redacted]. The purpose of their visit was to receive NPIC orientation briefings. 25X1
- 25X1
7. EOD of New Personnel - [redacted] EQD'd with the Human Factors Section (HFS) on an interim assignment before entering the Agency Career Training Program in early 1970. On 29 September [redacted], ORD, EOD'd with the Image Technology Section for a two-week assignment designed to enhance mutual aspects of advanced R&D planning between ORD and NPIC. 25X1
- 25X1
8. Validity of Army PI Test Battery - An in-house study to determine the predictive validity of the Army PI Test Battery for NPIC PI's was begun. [redacted] briefed NPIC management on this test battery on 25 and 30 September. 25X1
- 25X1
9. Color Utilization and Image Quality Determination - A visit was made to [redacted] on 26 September to discuss techniques for color utilization and image quality determination.
10. Change in Contract Monitor - During September [redacted] was assigned as contract monitor for: 1) [redacted] "Imagery Exploitation Research Program," 2) [redacted] "Photographic and Line-Scan Imagery Experimentation," and "Ground Order-of-Battle Resolution Study," 3) [redacted] "Imagery Experimentation Support," 4) [redacted] "Consultation in Visual Perception," and 5) "PI Chair" project. 25X1
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12. [] Advanced 918 Light Table - The [] Advanced 918 Light Table was accepted on 22 September.

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13. Microdensitometer Modification - The [] Microdensitometer Modification installation started on 30 September. This modification will allow the scan length of the [] 1032T Microdensitometer (in APSD) to be programmed by setting decade switches. In addition, the minimum sampling interval is being lowered to .1 m.

25X1

25X1

14. Automatic Stereo Scanner - On 12 September [] successfully achieved Milestone 2 of the Optical Bench Test for the Automatic Stereo Scanner. By that date all new optics had been fabricated and were being assembled prior to mounting on the bench. The remaining system components had been mounted on the bench ahead of schedule and the project manager reported an underrun of []. However, due solely to the company's escalating overhead rates, they expect to overrun the Bench Test by [].

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25X1

15. Imagery in Stripped Film Base - Surprisingly, classified imagery was reconstituted in samples of stripped film base supplied by []. Earlier samples yielded no such results when subjected to the special photochemical processing.

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16. Sample Analysis - Silver Recovery System - Analysis of the first sample of processed chips indicated a low incidence of uncleared ones; no recognizable information was detected. It remains to be shown that the system can consistently produce such results.

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17. ORD Image Processing Equipment - Delivery of the magnetic tape transport is scheduled for 25 October. Receipt of this last major item is expected to advance delivery of the overall system to NPIC by 2 months over the initial target of 30 May 1970.
18. Light Table Brightness Measurement - Word was received that MBS had completed calibration of the light meter attachments that were fabricated at NPIC. Only the final report is necessary to complete this project.
19. RIT Grant Program - DDI approval was received for the FY-70 grant program.

B. Anticipated Items of Interest for October 1969.

1. Dual Gamma Mensuration Study - Preliminary data analysis will be available in the week of 13 October. This should indicate a trend in answer to the question, "Is there a significant difference, in terms of mensuration, between dual gamma and Tranton processed imagery?" Final data will be available by 7 November.
2. Chemical Controls - Silver Recovery System - A procedure of chemical analysis for control of the caustic emulsion-stripping bath will be defined.

25X1

[redacted]
Deputy Chief
Research & Engineering Division

Attachment:

1. [redacted] 29 August 1969

Distribution:

- 1 - TSSG w/att. 1
2 - RED/TSSG w/o att. 1

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